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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/457,267	,267 12/09/1999		NAOMI IWAYAMA	1359.1020	7493	
21171	7590	09/22/2004		EXAMINER		
STAAS & H	IALSEY I	LLP		YUAN, ALMA	RI ROMERO	
SUITE 700 1201 NEW Y	ODK AVE	MIE NW	ART UNIT	PAPER NUMBER		
WASHINGT				2176		

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)					
	09/457,267	IWAYAMA, NAOMI					
Office Action Summary	Examiner	Art Unit					
	Almari Yuan	2176					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
<ul> <li>1) Responsive to communication(s) filed on 13 Ag</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowar closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro						
Disposition of Claims							
4) Claim(s) 1,2,5 and 7-11 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ▷ Claim(s) 1,2,5 and 7-11 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/09/04 & 4/13/04	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:						

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#### **DETAILED ACTION**

- 1. This action is responsive to communications: Amendment filed 4/13/04 and IDS filed 1/09/04 and 4/13/04.
- 2. Claims 10-11 are added. Claims 1, 2, 5, and 7-11 are pending. Claims 1, 8, and 9 are independent claims.

## Information Disclosure Statement

- 3. The information disclosure statement filed 1/09/04 fails to comply with 37 CFR 1.98(a)(3) because the Japanese Patent Application No. 11-266929 has not been translated into an English language. It has been placed in the application file, but the information referred to therein has not been considered.
- 4. The information disclosure statement (IDS) submitted on 4/13/04 has been considered by the Examiner.

# Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 1-2 and 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 6,005,498 to Yang et al., issued December 21, 1999, filed October 29, 1997 in view of Japanese Patent Application Publication Number Hei 7 (1995)-129572 A of Matsushita Electric Industrial Co., Ltd, partial translation provided by applicant in the Information Disclosure Statement filed February 11, 2003 (hereinafter "Matsushita"), and in further view of U.S. Patent Number 5,896,321 to Miller et al., issued April 20, 1999, filed November 14, 1997.

Regarding independent claims 1, 8, and 9, Yang et al. (herein after "Yang") discloses:

A device for entering a character string into a character string processing device (Yang in Fig. 2 and on col. 1, lines 5-6: teaches a keypad used for entering Chinese characters):

an input part allowing a user to enter the character string to be entered into the character string processing device (Yang in Fig. 2, block 210 and col. 2, lines 63-34 teaches a keypad for input);

an input situation acquiring part for acquiring a situation (Yang on col. 3, lines 15-17 teaches a MENU key that allows the user to select a "pinyin entry" option) of character string that has been started or an activated program, on the character string processing device (Yang on col. 2, lines 39-59 and col. 6, lines 1-4 teaches a reduced entry keypad to allow Chinese characters to be efficiently entered);

a candidate character string generation part for generating and outputting an output candidate string in response to a character string entered with the input part (Yang on col. 4, line 63 - col. 5, line 7 teaches after a user presses the OK key 386 to indicate that the word is completely entered, the microprocessor 220 shown in FIG. 2 initiates a search through the

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dictionary 244 in ROM 240 for all possible Chinese characters associated with the entered phonetic syllable .... The eligible Chinese characters are loaded into the RAM 250 for display.)

a candidate character string affirmation processing part for affirming the outputted candidate character string (Yang on col. 5, lines 51-54 teaches character selection key);

an affirmed character string storing part for storing a character string that has been affirmed (Yang on col. 5, lines 61-64 teaches if a character selection key was pressed as determined by step 460, the display 230 is cleared and the selected character is displayed and entered into the RAM 250 shown in FIG. 2).

However, Yang does not explicitly teach "a situation control part for affirming a dictionary used for generating a candidate character string and designating it as a situation-optimized dictionary" and "generating a string that is optimal for the situation using the situation-optimized dictionary".

Matsushita teaches a dictionary selection part that selects a special dictionary based on the acquiring situation inasmuch as factors include the time of input (Matsushita translation, p. 2, line 9: "using times") and context (Matsushita translation, p. 2, lines 9-11: "the arranged order of the respective special dictionary [presumably, dictionaries] recorded in the dictionary usage recording part.").

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Matsushita into Yang to provide a way to select a special dictionary based on the input, as taught by Matsushita, incorporated into the search through the dictionary, as taught by Yang (see col. 4, lines 65-67), in order to allows dictionaries containing words for special disciplines to be used where appropriate (Matsushita, col. 2, lines 4-7.)

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However, Yang and Matsushita do not explicitly teach "updating the contents of the situation-optimized dictionary dynamically".

Miller et al. (herein after "Miller") teaches updating a dynamic dictionary by adding confirmed data entries (On col. 9, lines 19-23).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Miller into Yang and Matsushita to provide a way to update a dynamic dictionary, as taught by Miller, incorporated into the dictionary of Yang and Matsushita, in order to provide the benefit of allowing the system to adaptively learn in response to user-defined entries (Miller on col. 9, lines 4-6).

## Regarding dependent claims 2 and 10-11, Yang discloses:

information relating to a user inputting the character string inasmuch as Yang et al. teach a "pinyin entry" option (on col. 3, lines 15-17).

7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yang,
Matsushita, and Miller, as applied to claim 1 above, and further in view of Japanese Patent
Application Publication Number Hei 9 (1997)-6771 A of Canon, Inc., partial translation
provided by applicant in the Information Disclosure Statement filed November 13, 2002
(hereinafter "Canon"), and further in view of U.S. Patent Number 5,829,023 to Bishop,
issued October 27, 1998, filed April 24, 1996.

**Regarding dependent claim 5**, Yang, Matsushita, and Miller disclose the invention substantially as described as claimed in *supra*.

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However, Yang, Matsushita, and Miller do not explicitly teach "storing a last-access date of an affirmed character string when storing the string" and "using the last-access date when generating the output candidate character string".

Canon teaches reading "the date and time of registration" of a string in a dictionary (Canon Abstract, CONSTITUTION, line 6), which inherently required that the date and time be stored when the string was stored and teaches determining whether information in a dictionary has been accessed recently enough to be valid for use (Canon translation of page 3, lines 22-26).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Canon into Yang, Matsushita, and Miller to provide a way to read the date and time of registration of a string in a dictionary and determining whether the information in a dictionary has been access recently, as taught by Cannon, incorporated into the entering and searching of a character string or word in a dictionary, as taught by Yang, Matsushita, and Miller, in order to recognize the most recently-entered strings that would be most likely to be relevant to users and enabling automatic removal items from a dictionary.

Further, Yang, Matsushita, Miller, and Canon do not teach "changing the last-access date of an already-stored string when it is accessed".

Bishop teaches maintaining a file attribute containing information concerning the date and frequency of use of a particular file (On col. 4, lines 19-21).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Bishop into Yang, Matsushita, Miller, and Canon to provide a way to maintain a file attribute containing information concerning the date and frequency of use of a particular file, as taught by Bishop, incorporated into dictionary of Yang,

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Matsushita, Miller, and Canon, in which users would be most likely to want to access files (or strings) which they had most recently accessed.

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yang,
Matsushita, Miller, Canon, and Bishop, as applied to claims 1-2, 5, 8-11 above, further in
view of Japanese Patent Application Publication Number Sho 61-32186, published
February 14, 1986, partial translation provided in applicants' Information Disclosure
Statement fled February 28, 2000 (hereinafter "Hitachi"), and further in view of Japanese
Patent Application Publication Number Hei 9-179859, published December 12, 1995,
partial translation provided in applicants' Information Disclosure Statement filed
February 28, 2000 (hereinafter "Just Syst").

**Regarding dependent claim 7**, Yang, Matsushita, Miller, Canon, and Bishop do not teach "associating character strings that are used in a pre-existing electronic text with information relating to a user creating the electronic text".

Hitachi suggests "associating character strings with the user creating the electronic text" on the translation of page 4, lines 1-9 teaches storing different content for different user so as to increase processing efficiency.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Hitachi into Yang, Matsushita, Miller, Canon, and Bishop to provide a way to store different content for different users, as taught by Hitachi, incorporated into the entering of text or characters in a computer environment of Yang, Matsushita, Miller, Canon, and Bishop, in order to increase processing efficiency.

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However, Yang, Matsushita, Miller, Canon, Bishop, and Hitachi do not teach "information relating to a character string processing apparatus by which the electronic text has been created".

Just Syst teaches processing a character string according to the device into which it has been inputted (Just Syst, translation of page 2, lines 8-10).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Just Syst into Yang, Matsushita, Miller, Canon, Bishop, and Hitachi to provide a way to process a character string according to the device into which it has been inputted, as taught by Just Syst, incorporated into the entering of text or characters in a computer environment of Yang, Matsushita, Miller, Canon, Bishop, and Hitachi, in order to recognize that different devices have different requirements for entering strings.

#### Response to Arguments

9. Applicant's arguments filed 4/14/04 have been fully considered but they are not persuasive.

# Regarding Applicant's remarks on page 8:

Applicant argues that Yang does not teach the amended feature "acquiring a situation of a character processing device", however, Yang does disclose a keypad entry apparatus (200) (see Figure 2); wherein the microprocessor (220) takes input from the keypad (210) and transmits the input to the output display (230) (see col. 2, lines 39-59). Furthermore, Yang teaches "an input situation acquiring part for acquiring a situation", on col. 3, lines 15-17 teaches a MENU key that allows the user to select a "pinyin entry" option.

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# Regarding Applicant's remarks on pages 8-9:

Applicant argues that none of the cited art describes "affirming a dictionary used for generating a candidate character string and designating it as a situation-optimized dictionary...", however, Matsushita does disclose selecting a special dictionary for converting input homophone strings into candidates to be converted of KANJI strings and words (see page 2 of the translation). Furthermore, Matsushita in Figure 1 and page 1 shows Dictionary detection part (6) and Dictionary selection part (90) to be used for the input of character strings.

# Regarding Applicant's remarks on page 9:

Applicant argues that Yang or any other cited art do not describe any situation relating to a kind of device. Yang on col. 2, lines 39-59 and see Figure 2 discloses a keypad entry apparatus (a kind of device) to receive input from the user (situation). Furthermore, Yang apparatus uses a dictionary to convert (situation) phonetic syllables into Chinese characters (see Abstract).

# Regarding Applicant's remarks on page 10:

Applicant argues that anywhere in the cited art describes "storing a storage date of an affirmed character string as a last access date", however, Canon teaches reading "the date and time of registration" of a string in a dictionary (Canon Abstract, CONSTITUTION, line 6), which inherently required that the date and time be stored when the string was stored and teaches determining whether information in a dictionary has been accessed recently enough to be valid for use (Canon translation of page 3, lines 22-26), in other words, Canon has the capability to register input information with its current date and time in the dictionary in the storage device.

Applicant argues that the Examiner has incorrectly taken an Official Notice, however, the Examiner does not recall taking an Official Notice set forth in MPEP § 2144.03.

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# Regarding Applicant's remarks on page 11:

Applicant argues that Hitachi does not describe "associating character strings that are used in a pre-existing electronic text with information relating to a user creating the electronic text", Hitachi has the capability of storing different content for different user (page 4, lines 1-9). Furthermore, Hitachi discloses a dictionary exclusive use for each user using an individual pattern dictionary for pattern recognition to an input pattern (see Abstract), in other words, the user inputs a character string and the characters strings are matched with the content of the personal dictionary.

#### Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Almari Yuan whose telephone number is 703-305-5945 (571-272-4104 after October 20, 2004). The examiner can normally be reached on Mondays - Fridays (8:30am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild, can be reached on 703-305-9792 (571-272-4090 after October 20, 2004). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AY September 17, 2004 SUPERVISORY PATENT EXAMINER